



Digital servo with metal gear construction providing 180° rotation angle. Operates within 4.8V to 6V voltage range, delivering stall torque of 10.5 kg·cm at 4.8V and 13 kg·cm at 6.0V. Features operating speed of 0.20 sec/60° at 4.8V and 0.17 sec/60° at 6.0V. Utilizes PWM control signal with JR connector and 300mm cable length. No-load operating current measures 120mA. Unit dimensions are 43 × 40 × 19mm with weight of 55g. Operates in temperatures from -20°C to 40°C with humidity tolerance of 20-95% RH non-condensing.

Product details	
Model	MG946R 180° Metal Gear
SKU	8781
Specifications	
Servo type	Digital
Gear type	Metal
Rotation angle	180°
Stall torque	10.5 kg·cm (4.8 V), 13 kg·cm (6.0 V)
Operating speed	0.20 s/60°(4.8 V), 0.17 s/60°(6.0 V)
Electrical specifications	
Operating voltage range	4.8 - 6 V
No-load operating current	120 mA
Control signal	PWM
Mechanical specifications	
Dimensions	43 x 40 x 19 mm
Weight	55 g
Connector	JR
Cable length	300 mm
Operating conditions	

Humidity range	20-95% RH (non-condensing)
Operating temperature	-20 - 40 °C
Storage temperature	-30 - 50 °C
Common	
Warranty	2 years